## 10/517685

#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization International Bureau





### (43) International Publication Date 24 December 2003 (24.12.2003)

#### **PCT**

# (10) International Publication Number WO 03/107015 A1

- (51) International Patent Classification<sup>7</sup>: G01P 15/06, 15/03, G01M 7/08, H01H 35/14, H04M 1/18
- (21) International Application Number: PCT/US03/19014
- (22) International Filing Date: 13 June 2003 (13.06.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/388,684

14 June 2002 (14.06.2002) US

- (71) Applicant (for all designated States except US): 3M IN-NOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FITZER, Robert, C. [US/US]; 11 Hay Camp Road, North Oaks, MN 55127 (US). BOMMARITO, G., Marco [US/US]; 4340 McDonald Drive Court North, Stillwater, MN 55082 (US). CRONE, Richard, L. [US/US]; 8786 Inverness Road, Woodbury, MN 55125 (US). MCCUTCHEON, Jeffrey, W. [US/US]; 243 County Road Y, Baldwin, WI 54002 (US). ANDERSON, Kevin, W. [US/US]; 1035 Van Slyke Avenue, Saint Paul, MN 55103 (US). BIRKHOLZ, Russell, D. [US/US]; 1989 Duluth Street, Maplewood, MN 55109 (US). ZHOU, Zhiming [CN/US]; 9308 Preserve Alcove, Woodbury, MN 55125 (US).

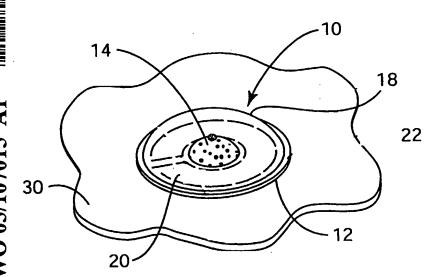
- (74) Agents: PASTIRIK, Daniel, R. et al.; Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### **Declarations under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM,

[Continued on next page]

(54) Title: SHOCK INDICATOR



(57) Abstract: A shock indicator is described comprising (A) a base having a first side and a second side; (B) an indicator associated with the first side of the base, the indicator comprising a plurality of indicator subparts, the subparts comprising solid material arranged (i) in a first configuration when the shock indicator is in a first state prior to a shock event, and (ii) in a second configuration when the shock indicator is in a second state following a shock event; and (C) means associated with the second side of the base for attachment of the shock indicator to a surface. A method of manufacture is also provided.

WO 03/107015 A1